

1. An RF Karaoke data receiving pack comprising:

an RF receiver for receiving a voice signal and key data signal radio-transmitted from a wireless microphone device via a receiving antenna;

a demodulator for demodulating the signal applied thereto from the RF receiver;

an audio/key data separator for separating the voice signal and key data signal from the signal demodulated by the demodulator;

a waveform shaping unit for shaving the waveform of the key data signal;

an A/D converter for converting the voice signal into a digital signal;

a receiver MCU connected to an external computing device having a computing function and a sound processing function, the receiver MCU controlling the internal operation of the RF Karaoke data signal receiving pack while transmitting the digital voice signal and key data signal to the external computing device;

a serial communication interface transmitting the digital voice signal and key data signal to the external computing device under the control of the receiver MCU; and

an extension pack in which additional songs are recorded, the extension pack being connected to an

5 songs under the control of the receiver MCU.

2. The RF Karaoke data receiving pack as claimed in claim 1, wherein the serial communication interface transmits or receives signals in a wired or
10 wireless manner using one of a USB drive, an RF transceiver, a laser transceiver and an infrared transceiver.

3. The RF Karaoke data receiving pack as
15 claimed in claim 1, wherein the external computing device comprises an X-box game device.

4. The RF Karaoke data receiving pack as claimed in claim 1, wherein the external computing device comprises the main body of a personal computer.
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5. The RF Karaoke data receiving pack as claimed in any one of claims 1 to 4, wherein the extension pack comprises:

25 a housing forming the body of the extension pack;
an antenna wire fixed inside the housing along the edge of the housing, the antenna wire capturing an RF signal and transmitting the captured RF signal;

30 an RF signal receiving pack for demodulating the RF signal transmitted from the wireless microphone device and captured by the antenna wire and separating a song data signal from the RF signal;

a male connector for a receiving module, the male

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... being electrically connected to an output
5 signal line of the RF signal receiving pack and
protruded from one side of the housing 282 such that
the male connector is connected to the extension slot
under the control of the receiver MCU; and

a plurality of storage packs fitted in the housing,
10 for storing data of new songs and outputting the data.

6. A Karaoke system comprising:

a wireless microphone device for modulating key
data signal generated from various keys including
15 numeral keys used for selecting a song and
accompaniment keys and a user's voice signal and radio-
transmitting the modulated key data signal and voice
signal;

an external computing device including a
20 computing function, a serial communication interface
and a sound processing function, the external computing
device being the subject of the operation of the
Karaoke system;

an RF Karaoke system data receiving pack for
25 receiving the voice signal and key data signal from the
wireless microphone device, demodulating the received
voice signal and key data signal and transmitting the
demodulated voice signal and key data signal to the
external computing device via the serial communication
30 interface;

an optical disk for storing a Karaoke system
operating program executed and read by the external

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5 and

an audio device connected to the external computing device through a connector for reproducing an audio signal provided by the external computing device.

10 7. The Karaoke system as claimed in claim 6, wherein the serial communication interface comprises a USB interface.

8. The Karaoke system as claimed in claim 6 or
15 7, wherein the optical disk comprises a DVD-ROM.